

5' TTG ACA AGT CAG AAG CTT GAA AGC AGG GAA ATC CGG ATG TCT CGG TTA TGA AGT 11 20 29 38 47 56
GGA GCA GTG AGT GTG AGC CTC AAC ATA GTT CCA GAA CTC TCC ATC CGG ACT AGT 65 74 83 92 101 110
TAT TGA GCA TCT GCC TCT CAT ATC ACC AGT GGC CAT CTG AGG TGT TTC CCT GGC 119 128 137 146 155 164
TCT GAA GGG GTA GGC ACG ATG GCC AGG TGC TTC AGC CTG GTG TTG CTT CTC ACT 173 182 191 200 209 218
TCC ATC TGG ACC ACG AGG CTC CTG GTC CAA GGC TCT TTG CGT GCA GAA GAG CTT 227 236 245 254 263 272
S I W T T R L L V Q G S L R A E L
TCC ATC CAG GTG TCA TGC AGA ATT ATG GGG ATC ACC CTT GTG AGC AAA AAG GCG 281 290 299 308 317 326
S I Q V S C R I M G I T L V S K K A
AAC CAG CAG CTG AAT TTC ACA GAA GCT AAG GAG GCC TGT AGG CTG CTG GGA CTA 335 344 353 362 371 380
N Q Q L N F T E A K E A C R L L G L
AGT TTG GCC GGC AAG GAC CAA GTT GAA ACA GCC TTG AAA GCT AGC TTT GAA ACT 389 398 407 416 425 434
S L A G K D Q V E T A L K A S F E T

FIGURE 1A

200200-115400

443	TGC AGC TAT GGC TGG GTT GGA GAT GGA TTC GTG GTC ATC TCT AGG ATT AGC CCA	461	470	479	488
C S Y G G W V	G D G G F V	I S R I S P			
497	AAC CCC AAG TGT GGG AAA AAT GGG GTG GTC CTG ATT TGG AAG GTT CCA GTG	515	524	533	542
N P K C C G K N G V	G V G V L I W K V				
551	AGC CGA CAG TTT GCA GCC TAT TGT TAC AAC TCA TCT GAT ACT TGG ACT AAC TCG	569	578	587	596
S R Q F A A Y C Y N S S D T W T N S					
605	TGC ATT CCA GAA ATT ATC ACC ACC AAA GAT CCC ATA TTC AAC ACT CAA ACT GCA	623	632	641	650
C I P E I I T T K D P I F N T Q T A					
659	ACA CAA ACA ACA GAA TTT ATT ATT GTC AGT GAC AGT ACC TAC TCG GTG GCA TCC CCT	677	686	695	704
T Q T T E F I V S D S T Y S A S P					
713	TAC TCT ACA ATA CCT GCC CCT ACT ACT ACT CCT CCT GCT CCA GCT TCC ACT TCT	731	740	749	758
Y S T I I P A P T T T P P A P A S T S					
767	ATT CCA CGG AGA AAA AAT TTG ATT TGT GTC ACA GAA GTT TTT ATG GAA ACT AGC	785	794	803	812
I P R R K K L I C V T E V F M E T S					

FIGURE 1B

821 830 839 848 857 866
ACC ATG TCT ACA GAA ACT GAA CCA TTT GTT GAA AAT AAA GCA GCA TTC AAG AAT
T M S T E T E P F V E N K A A F K N

875 884 893 902 911 920
GAA GCT GCT GGG TTT GGA GGT GTC CCC ACG GCT CTG CTA GTG CTT GCT CTC CTC
E A A G G F G G V P T A L L V L A L L

929 938 947 956 965 974
TTC TTT GGT GCT GCA GCT GGT CTT GGA TTT TGC TAT GTG AAA AGG TAT GTG AAG
F F G A A A G L G F C Y V K R Y V K

983 992 1001 1010 1019 1028
GCC TTC CCT TTT ACA AAC AAG AAT CAG CAG AAG GAA ATG ATC GAA ACC AAA GTA
A F P F T N K N Q Q K E M I E T K V

1037 1046 1055 1064 1073 1082
GTA AAG GAG GAG AAG GCC AAT GAT AGC AAC CCT AAT GAG GAA TCA AAG AAA ACT
V K E E K A N D S N P N E E S K K T

1091 1100 1109 1118 1127 1136
GAT AAA AAC CCA GAA GAG TCC AAG AGT CCA AGC AAA ACT ACC GTG CGA TGC CTG
D K N P E E S K S P S K T T V R C L

1145 1154 1163 1172 1181 1190
GAA GCT GAA GTT TAG ATG AGA CAG AAA TGA GGA GAC ACA CCT GAG GCT GGT TTC
E A E V

FIGURE 1C

SEQUENCE

1199	1208	1217	1226	1235	1244
TTT CAT GCT CCT TAC CCT GCC CCA GCT GGG GAA ATC AAA AGG GCC AAA GAA CCA					
1253	1262	1271	1280	1289	1298
AAG AAG AAA GTC CAC CCT TGG TTC CTA ACT GGA ATC AGC TCA GGA CTG CCA TTG					
1307	1316	1325	1334	1343	1352
GAC TAT GGA GTG CAC CAA AGA GAA TGC CCT TCT CCT TAT TGT AAC CCT GTC TGG					
1361	1370	1379	1388	1397	1406
ATC CTA TCC TCC TAC CTC CAA AGC TTC CCA CGG CCT TTC TAG CCT GGC TAT GTC					
1415	1424	1433	1442	1451	1460
CTA ATA ATA TCC CAC TGG GAG AAA GGA GTT TTG CAA AGT GCA AGG ACC TAA AAC					
1469	1478	1487	1496	1505	1514
ATC TCA TCA GTA TCC AGT GGT AAA AAG GCC TCC TGG CTG TCT GAG GCT AGG TGG					
1523	1532	1541	1550	1559	1568
GTT GAA AGC CAA GGA GTC ACT GAG ACC AAG GCT TTC TCT ACT GAT TCC GCA GCT					
1577	1586	1595	1604	1613	1622
CAG ACC CTT TCT TCA GCT CTG AAA GAG AAA CAC GTA TCC CAC CTG ACA TGT CCT					
1631	1640	1649	1658	1667	1676
TCT GAG CCC GGT AAG AGC AAA AGA ATG GCA GAA AAG TTT AGC CCC TGA AAG CCA					

FIGURE 1D

1685 1694 1703 1712 1721 1730
TGG AGA TTC TCA TAA CTT GAG ACC TAA TCT CTG TAA AGC TAA AAT AAA GAA ATA

1739 1748 1757 1766 1775 1784
GAA CAA GGC TGA GGA TAC GAC AGT ACA CTG TCA GCA GGG ACT GTA AAC ACA GAC

1793 1802 1811 1820 1829 1838
AGG GTC AAA GTG TTT TCT CTG AAC ACA TTG AGT TGG AAT CAC TGT TTA GAA CAC

1847 1856 1865 1874 1883 1892
ACA CAC TTA CTT TTT CTG GTC TCT ACC ACT GCT GAT ATT TTC TCT AGG AAA TAT

1901 1910 1919 1928 1937 1946
ACT TTT ACA AGT AAC AAA AAT AAA AAC TCT TAT AAA TTT CTA TTT TTA TCT GAG

1955 1964 1973 1982 1991 2000
TTA CAG AAA TGA TTA CTA AGG AAG ATT ACT CAG TAA TTT GTT TAA AAA GTA ATA

2009 2018 2027
AAA TTC AAC AAA CAT TTA AAA AAA AA 3'

FIGURE 1E